

KUBOTA Corporation

EXECUTIVE ORDER U-R-025-0850 New Off-Road Compression-Ignition Engines

Pursuant to the authority vested in California Air Resources Board by Sections 43013, 43018, 43101, 43102, 43104 and 43105 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-14-012;

IT IS ORDERED AND RESOLVED: That the following compression-ignition engines and emission control systems produced by the manufacturer are certified as described below for use in off-road equipment. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)		
2020	LKBXL01.5A1D	1.498	Diesel	3000		
SPECIAL	FEATURES & EMISSION	CONTROL SYSTEMS	TYPICAL EQUIPMENT	APPLICATION		
Direct Diesel Injection, Turbocharger, Electronic Control Module, Exhaust Gas Recirculation, Periodic Trap Oxidizer, Diesel Oxidation Catalyst			Loader, Tractor, Pump, Compressor, Other Industrial Equipment			

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for non-methane hydrocarbon (NMHC), oxides of nitrogen (NOx), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NOx), carbon monoxide (CO), and particulate matter (PM) in grams per kilowatt-hour (g/kw-hr), and the opacity-of-smoke certification standards and certification levels in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family (Title 13, California Code of Regulations, (13 CCR) Section 2423):

POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			NMHC	NOx	NMHC+NOx	co	PM	ACCEL	LUG	PEAK
19 <u><</u> kW < 37	Tier 4 Final	STD	N/A	N/A	4.7	5.5	0.03	N/A	N/A	N/A
		CERT		-	2.9	0.1	0.002		_	

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Section 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control system warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

This Executive Order is only granted to the engine family and model-year listed above. Engines in this family that are produced for any other model-year are not covered by this Executive Order.

Executed at El Monte, California on this _______ day of June 2019.

Allen Lyons Chief

Emissions Compliance, Automotive Regulations and Science Division

Engine Model Summary Form

Attachment

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E0#U-R-025-0850 Date: 5/23/2019

Manufacturer:

KUBOTA Corporation

Engine category:

Nonroad CI

EPA Engine Family: LKBXL01.5A1D

Mfr Family Name:

N/A

Process Code:

New Submission

1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
V1505-CR-T-EW01	V1505-CR-T-EW	45.6@3000	28.0	18.8	90.1@2000	30.2	13.5	EM, DFI, TC, EGR, ECM, PTOX, DOC
V1505-CR-T-EW02	V1505-CR-T-EW	43.6@3000	26.8	18.0	86.2@2000	28.8	12.9	EM, DFI, TC, EGR, ECM, PTOX, DOC
V1505-CR-T-EW03	V1505-CR-T-EW	30.4@2500	21.9	12.2	76.6@1600	25.6	9.2	EM, DFI, TC, EGR, ECM, PTOX, DOC
V1505-CR-T-EW04	V1505-CR-T-EW	36.3@2500	26.2	14.6	86.1@2000	28.8	12.9	EM, DFI, TC, EGR, ECM, PTOX, DOC
	200000							